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Entry 13 of 971

File: USPT

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TITLE: Methods and adaptors for generating specific nucleic acid populations

DEPR:

One end of the adaptors is ligated to the DNA fragment. The adaptors described herein are 'blunt ended' and thus are ligatable to 'blunt ended' DNA fragments. Examples of restriction enzymes that can be used to digest DNA to generate DNA fragments having blunt ends are Alu I and Rsa I. Additional restriction enzymes known to generate blunt ends are well known to one of skill in the art. The adaptors may also have overhanging ends for ligation to DNA fragments having compatible overhanging ends. If desired, the overhanging ends can be removed or filled in by digestion or polymerization with a suitable exonuclease, endonuclease, or polymerase to generate blunt ends. Additionally, one or more of the adaptors or DNA fragments may be cleaved with one or more restriction enzymes which generate overhanging ends. Also contemplated are two adaptors having noncompatible overhanging ends for directional ligation of the adaptors to a DNA fragment.

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